

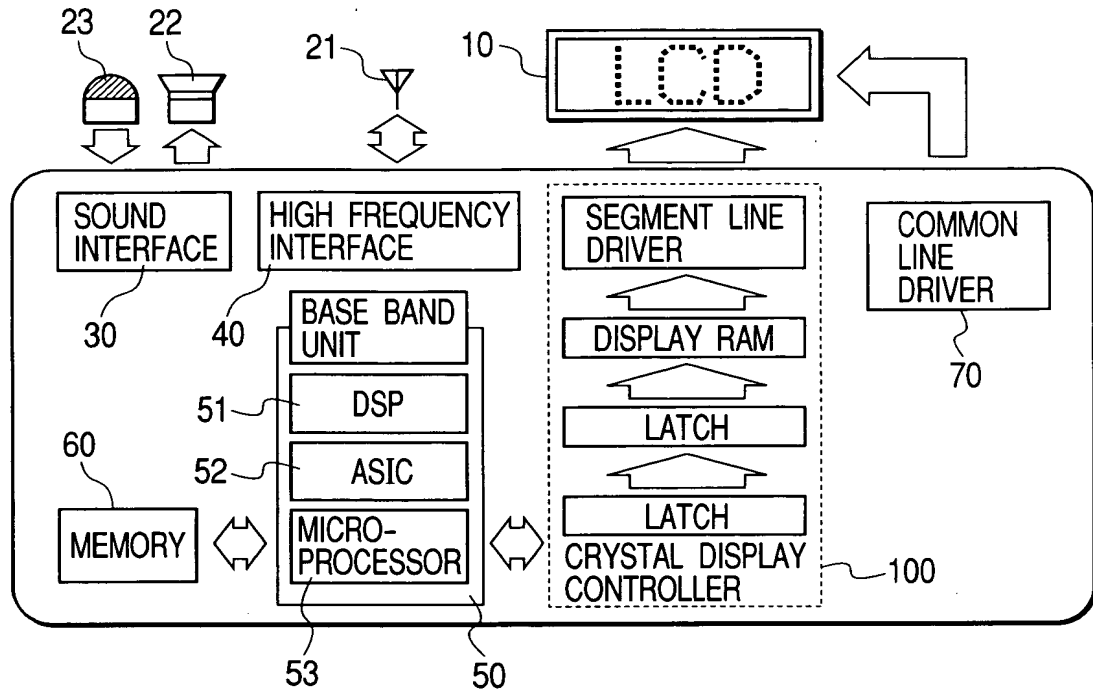
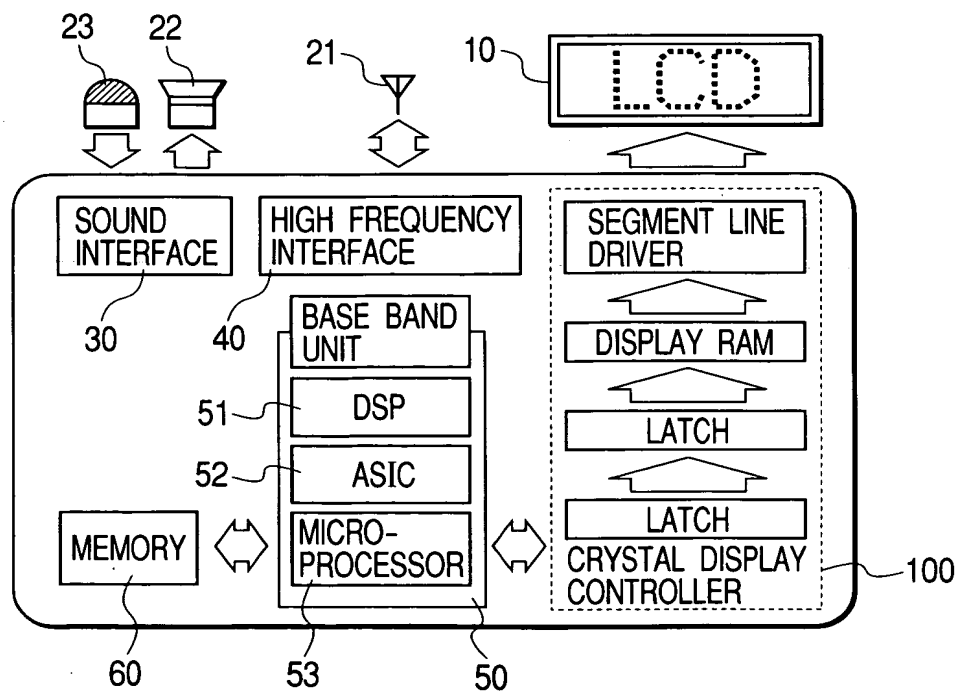
**FIG. 1(A)****FIG. 1(B)**

FIG. 2

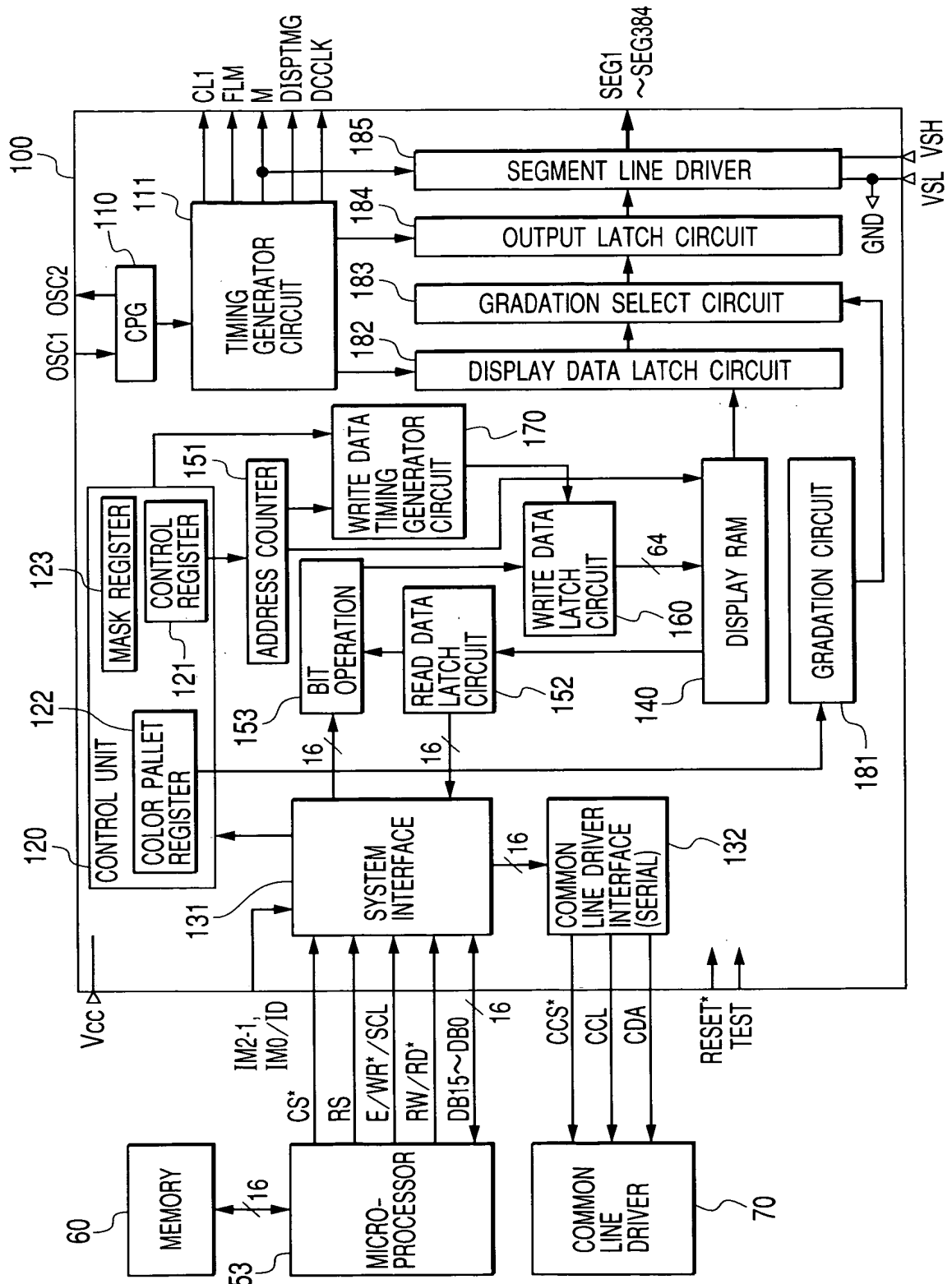


FIG. 3

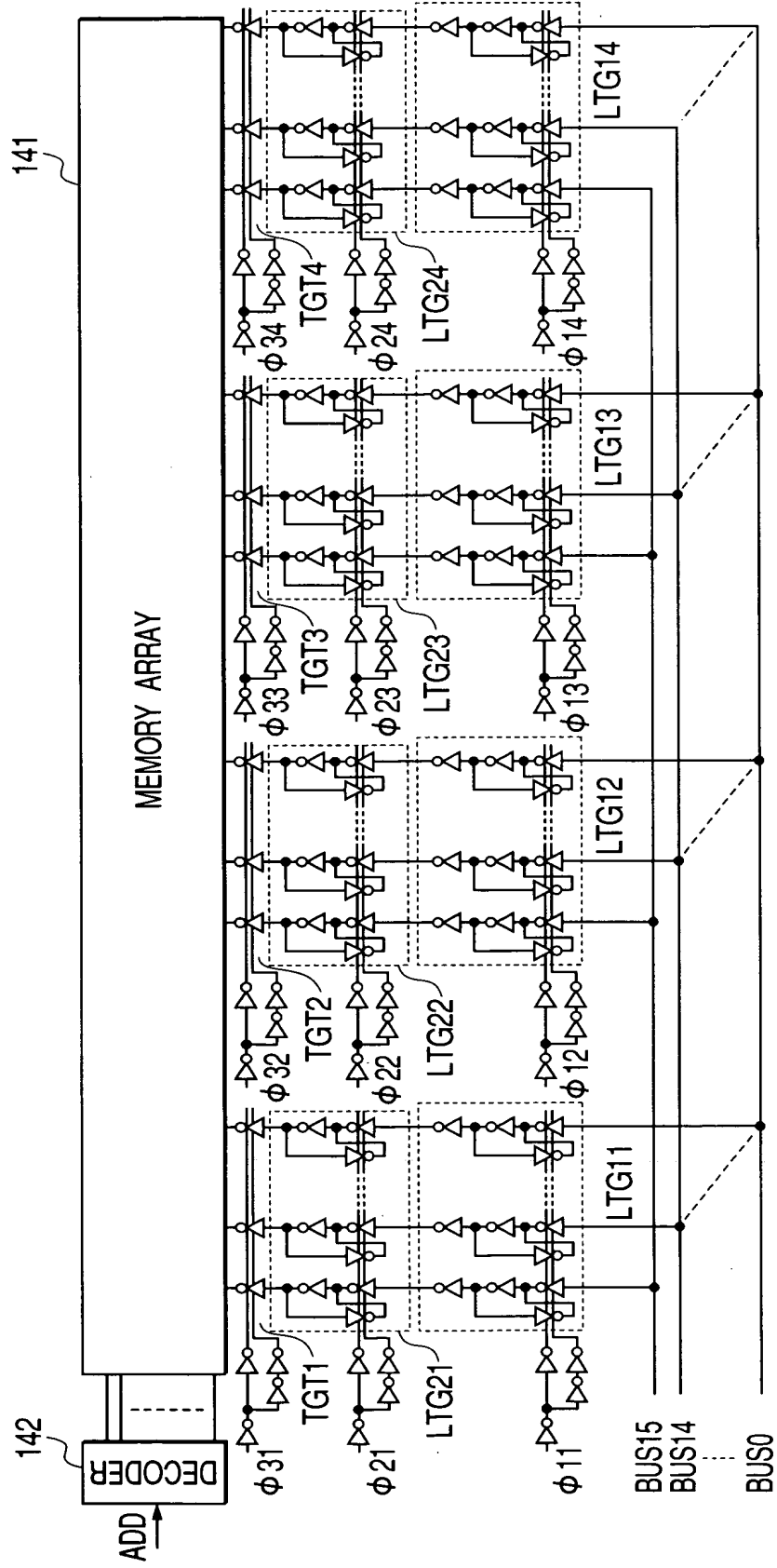


FIG. 4

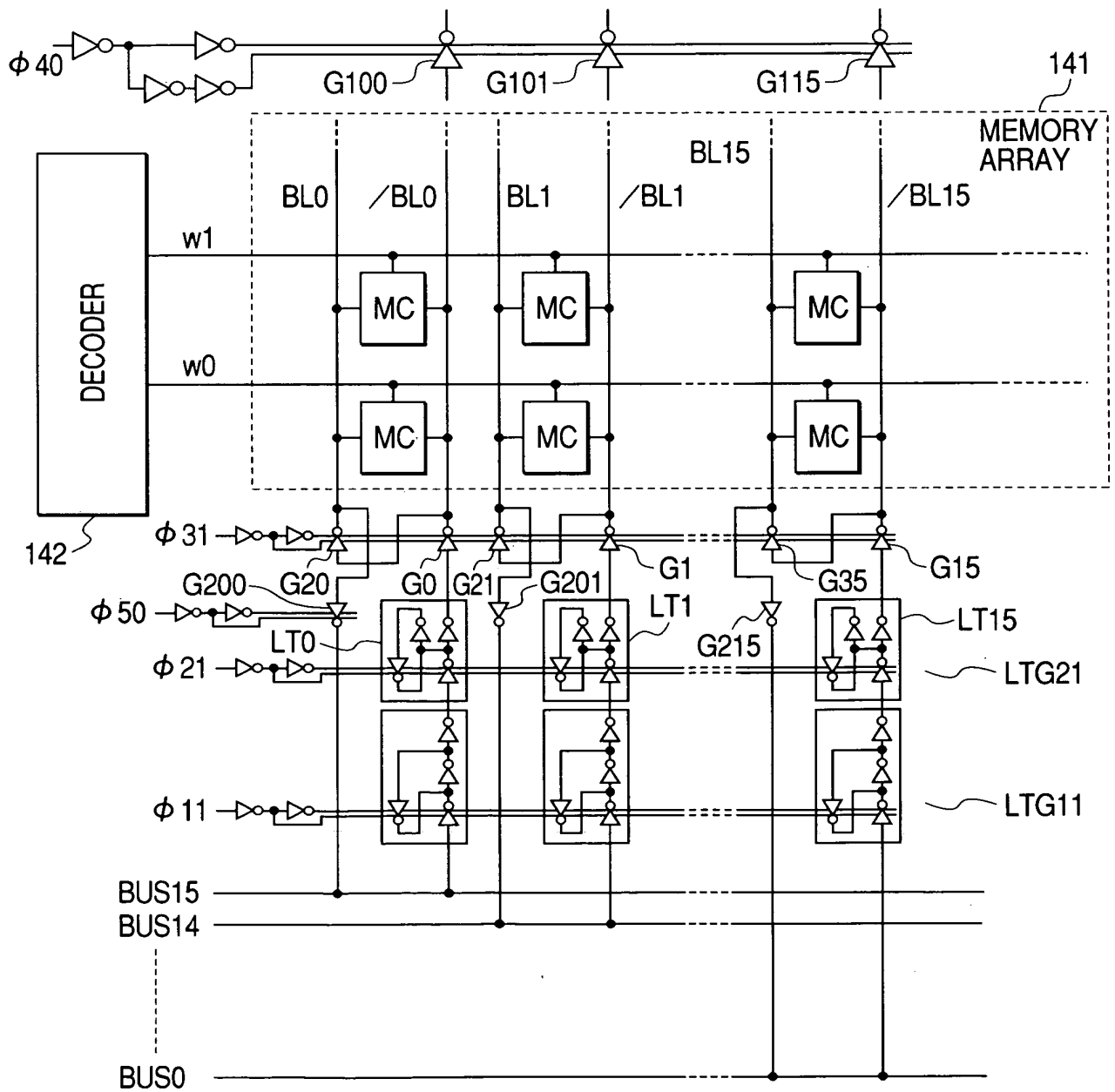


FIG. 5(A)

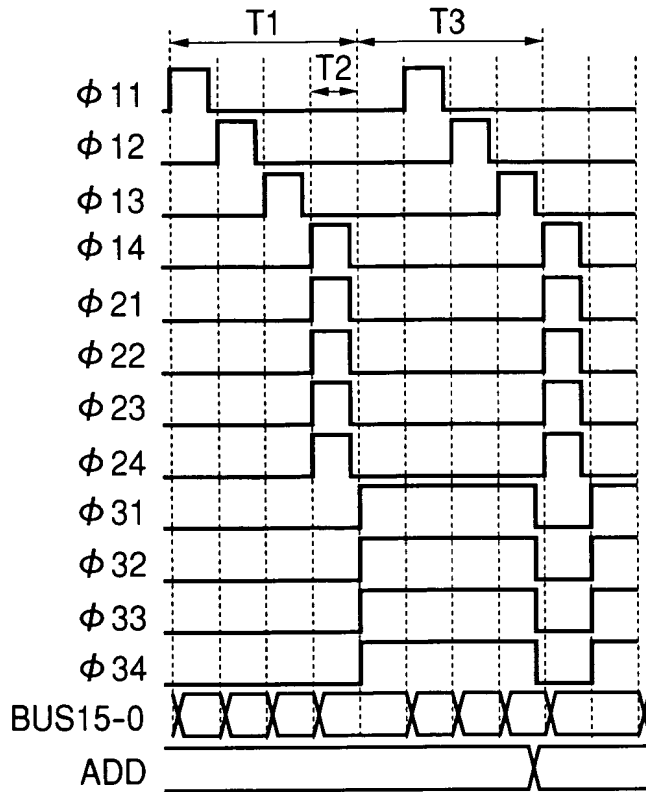
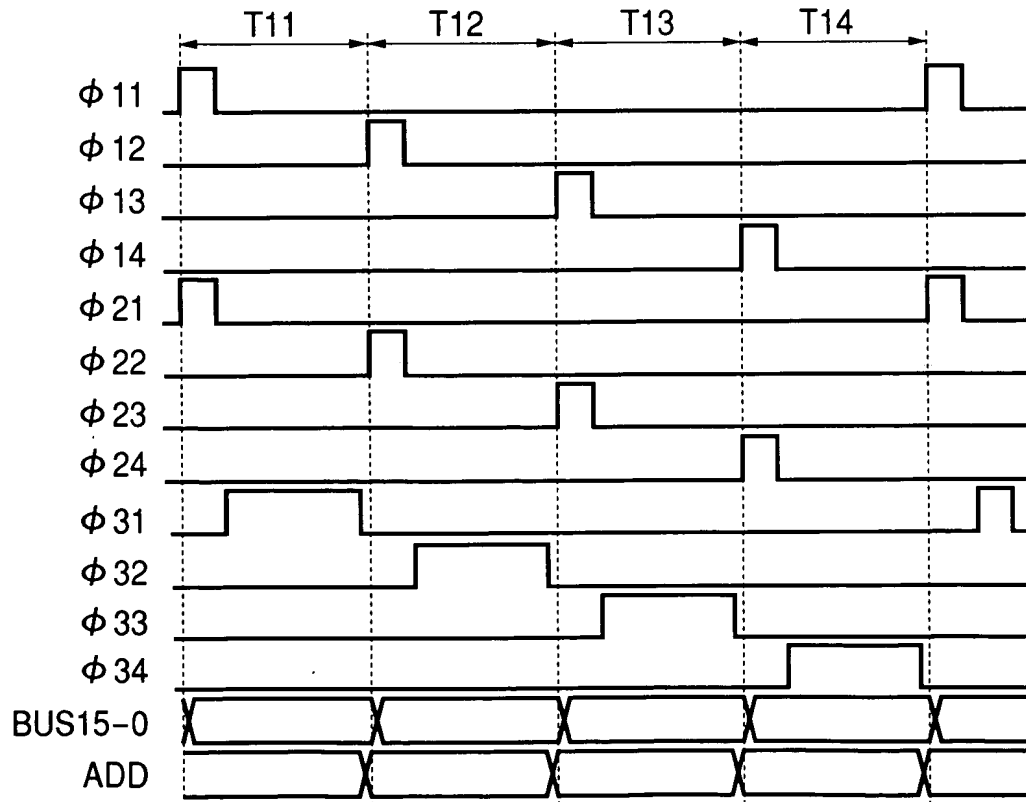


FIG. 5(B)



*FIG. 6(A)*

UNIT OF BURST WRITE

1 LINE	\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007	...	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	...	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	...	\$023F
...										
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	...	\$7F3F
...										
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A706	\$A707	...	\$A73F
...										
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	...	\$FF3F

*FIG. 6(B)*

	DUMMY DATA	WRITE DATA				DUMMY DATA				
1 LINE	\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007	...	\$003F
2 LINE	\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107	...	\$013F
3 LINE	\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207	...	\$023F
...										
128 LINE	\$7F00	\$7F01	\$7F02	\$7F03	\$7F04	\$7F05	\$7F06	\$7F07	...	\$7F3F
...										
168 LINE	\$A700	\$A701	\$A702	\$A703	\$A704	\$A705	\$A706	\$A707	...	\$A73F
...										
256 LINE	\$FF00	\$FF01	\$FF02	\$FF03	\$FF04	\$FF05	\$FF06	\$FF07	...	\$FF3F

FIG. 7(A)

i) REWRITE AREA : IN NEW 4 WORDS WRITING, A WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR WRITING TO LATCHES : 4 TIMES

(1)	(2)	(3)	(4)				

RAM

ONCE

FIG. 7(B)

ii) REWRITE AREA : IN NEW 8 WORDS WRITING, A WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR WRITING TO LATCHES : 8 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

RAM

TWICE

FIG. 7(C)

iii) REWRITE AREA : WHEN IT WRITES IN A DIFFERENT LINE EVERY 4 WORDS, EACH WRITE ADDRESS BEGINS FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR WRITING TO LATCHES : 8 TIMES

(1)	(2)	(3)	(4)				
(5)	(6)	(7)	(8)				

RAM

TWICE

FIG. 8(A)

i) REWRITE AREA : IN NEW 3 WORDS WRITING, A WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR  
WRITING TO LATCHES : 4 TIMES

(1)	(2)	(3)	(4)				

RAM

ONCE

FIG. 8(B)

ii) REWRITE AREA : IN NEW 4 WORDS WRITING, A WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR  
WRITING TO LATCHES : 8 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

RAM

TWICE

FIG. 8(C)

iii) REWRITE AREA : WHEN IT WRITES IN A DIFFERENT LINE EVERY 6 WORDS, EACH WRITE ADDRESS DOES NOT BEGIN FROM THE MULTIPLE OF 4.

\$0000	\$0001	\$0002	\$0003	\$0004	\$0005	\$0006	\$0007
\$0100	\$0101	\$0102	\$0103	\$0104	\$0105	\$0106	\$0107
\$0200	\$0201	\$0202	\$0203	\$0204	\$0205	\$0206	\$0207

NUMBER OF TIMES FOR  
WRITING TO LATCHES : 16 TIMES

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)

RAM

4 TIMES



*FIG. 9(A)*

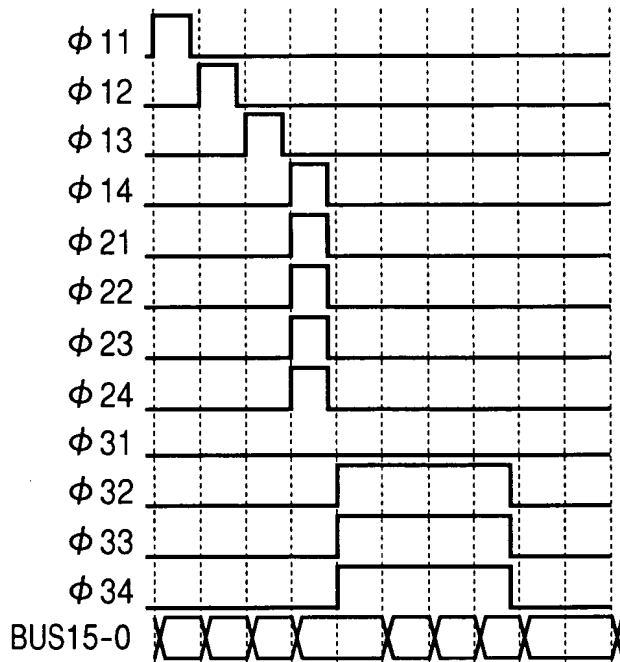
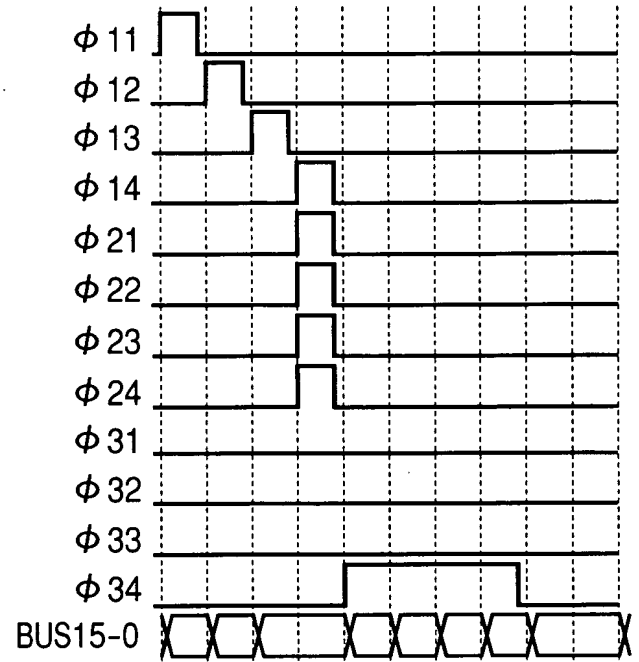
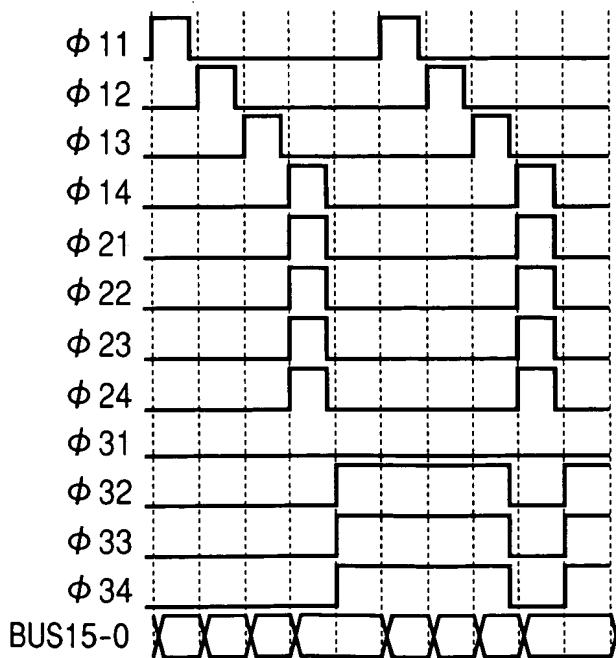
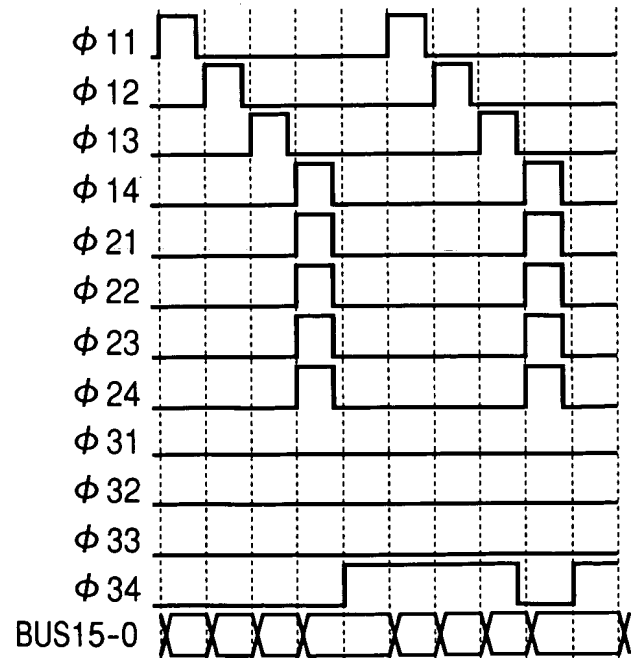
WRITE START ADDRESS	MASK AMOUNT FOR START SIDE	WRITE END ADDRESS	MASK AMOUNT FOR END SIDE
WSA	SMW	WEA	EMW

*FIG. 9(B)*

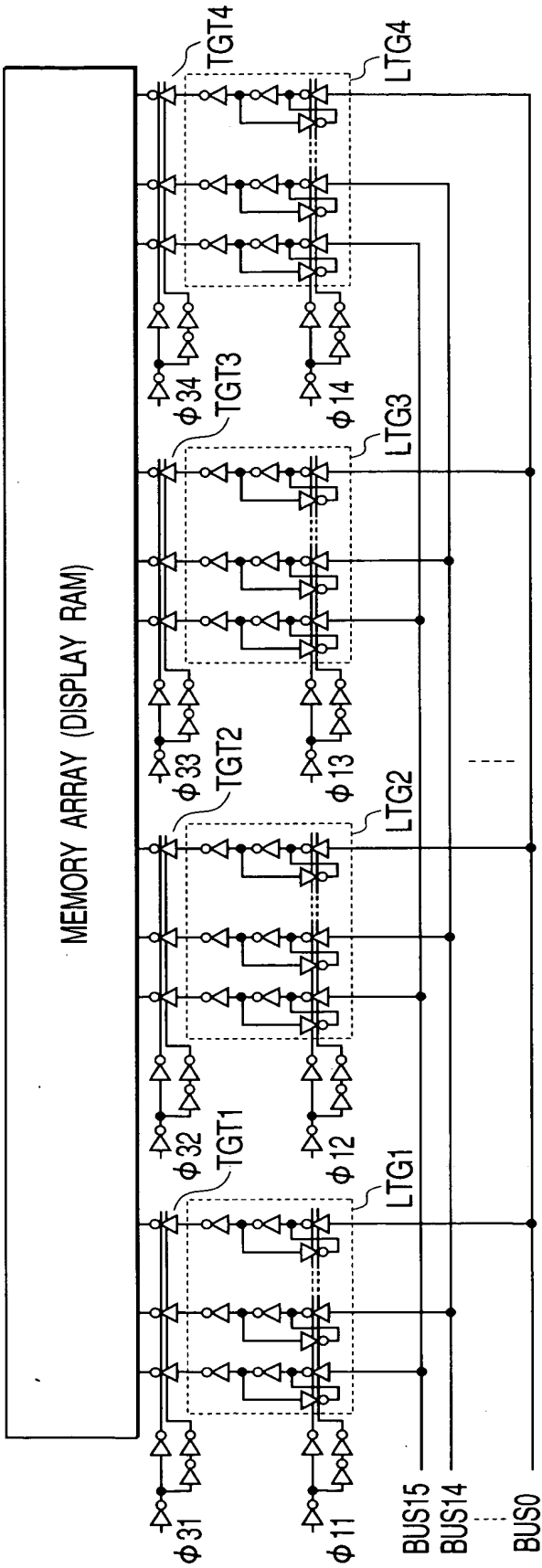
	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B
CASE 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASE 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CASE 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CASE 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	■ MASK PORTION											

*FIG. 9(C)*

	WSA	SMW	WEA	EMW
CASE 1	0000	00	000B	00
CASE 2	0001	01	000A	01
CASE 3	0010	10	0009	10
CASE 4	0011	11	0008	11

*FIG. 10(A)**FIG. 10(B)**FIG. 10(C)**FIG. 10(D)*

**FIG. 11**



*FIG. 12*